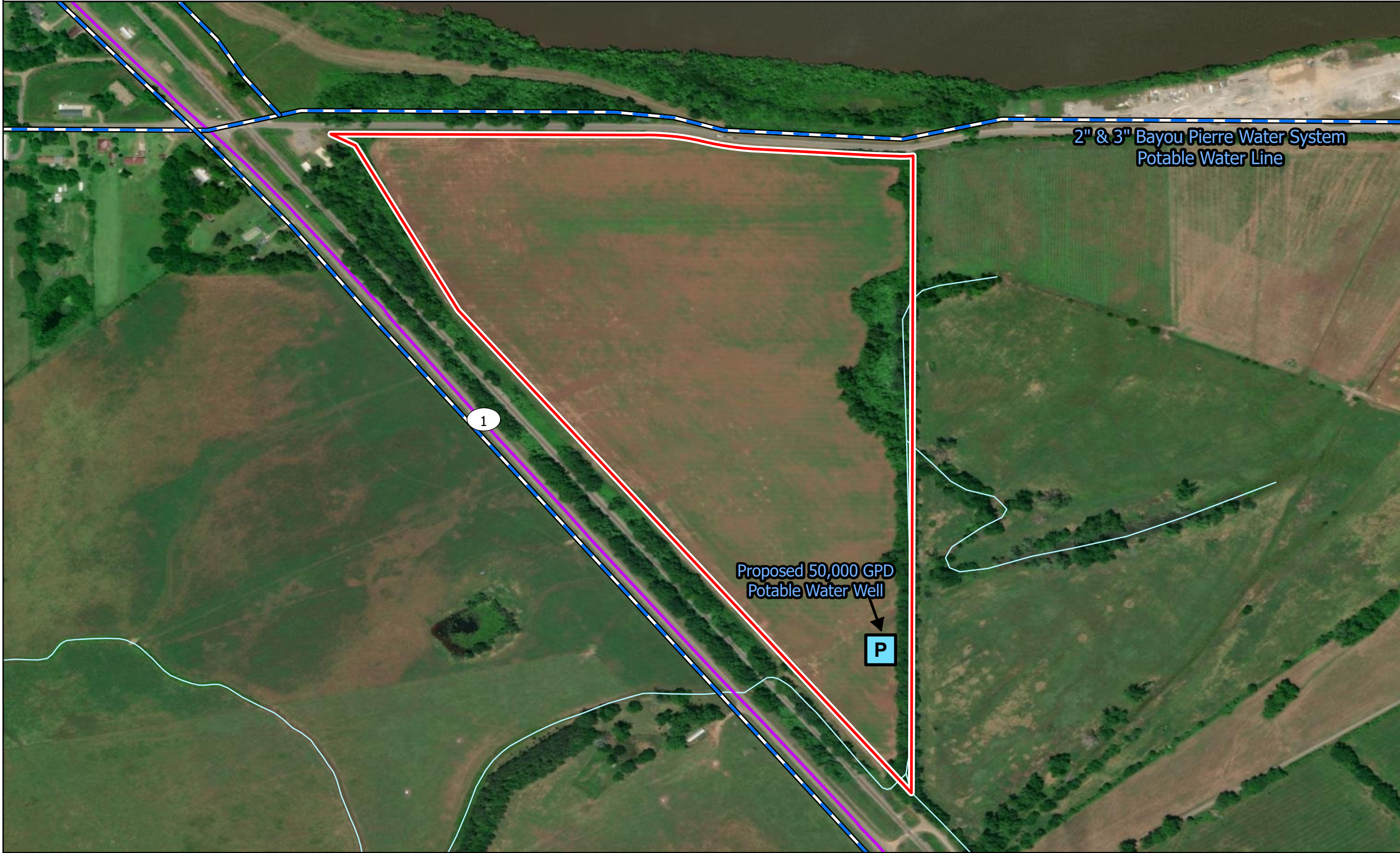


Exhibit L: Red River Parish Port Site Potable Water Infrastructure Upgrade Letter & Map

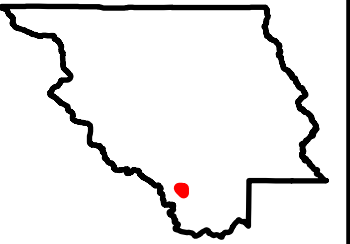
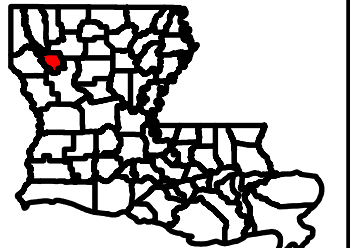


Red River Parish Port Site Potable Water Infrastructure Upgrade Letter & Map

Site Exhibit for
Red River Parish Port Site
Red River Parish



NLEP



Legend

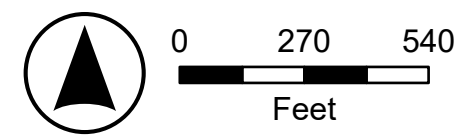
- Site Boundary**
(±69.23 ac.)
- P **Proposed 50,000 GPD Potable Water Well**
- 2" & 3" Bayou Pierre Water System Potable Water Line**
- Stream**
- Major Road**
- Interstate**
- US Highway**
- State Highway**
- Railroad**



Date: 6/20/2024
Project Number: 216269
Drawn By: BMS
Checked By: EEB

General Notes:

1. The information presented herein is for planning purposes only. Further detailed due diligence MUST be completed prior to making decisions regarding the site.
2. No attempt has been made by CSRS, Inc. to verify site boundary, title, actual legal ownership, deed restrictions, servitudes, easements, or other burdens on the property, other than that furnished by the client or his representative.
3. Transportation data from 2023 TIGER datasets via U.S. Census Bureau at <https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html>.
4. Aerial imagery is compiled from multiple different sources to create one cohesive image and may not reflect current ground condition.
5. Utility information from visual inspection and/or the individual utility operators. Exact field location has not been determined by survey. The lines shown are an approximate representation only and may have been offset for depiction purposes.
6. Potable water utility data was derived and digitized from information provided by the Bayou Pierre Water System.



P:\216269\017 - Red River Parish Port\CADGIS_templates\GIS\Red River Potable

June 11, 2024

Ms. Sheena Bryant
North Louisiana Economic Partnership
333 Texas Street, Suite 411
Shreveport, LA 71101

**Red River Parish Port Site
Potable Water Infrastructure
Upgrade Letter & Map**

**RE: Red River Parish Port Site
Potable Water Infrastructure Upgrade Letter & Map
CSRS Project No 216269**

Dear Ms. Bryant,

According to correspondence with local utility officials, the Red River Parish Port Site located in Red River Parish, Louisiana does not have feasible access to an existing potable water line to service the site. Bayou Pierre Water Systems is the local potable water provider for the region and preliminary discussions with the local utility provider indicates that 2-inch and 3-inch potable water lines are located adjacent to the site along LA Highway 1 and Riverport Drive. However, the minimum diameter of these lines may not meet the LED Certification Minimum requirements that typically require a 4-inch diameter potable water line. In order to provide adequate water supply and support potential fire suppression needs of an industrial facility, construction of a groundwater well may be required.

Review of the U.S. Geologic Survey (USGS) Water Resources of Red River Parish, LA report indicates the Red River Alluvial Aquifer and Upland terrace aquifers are the primary freshwater bearing shallow aquifers in the region that typically range from near surface to approximately 200-ft below ground surface (BGS). A USGS hydrographic monitoring well located near the site indicates the Red River Alluvial aquifer starts at approximately 56-ft BGS.


The construction cost of a 100-ft BGS well in the Red River Alluvial aquifer capable of providing 35 gallons per minute (50,000 GPD) flow requirements, including storage tanks, pumps, and piping systems is estimated to be \$240,000.

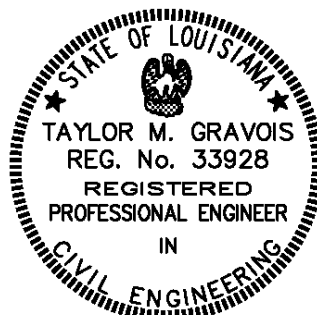
Please note this estimate does not include engineering, required rights of way, environmental impacts, or operation and maintenance costs. This estimate also does not include pretreatment systems that may be required. This cost estimate was prepared with the best information available at the time of certification. The actual costs can vary based on the availability of material, site conditions and labor availability. This plan can be executed within a reasonable timetable of 6 months or less based on preliminary engineering judgment.

Thank you for the opportunity to assist you in this project. Should you have any questions or require additional information, feel free to contact me.

Respectfully,

CSRS, Inc.


Taylor Gravois, PE, PLS



Red River Parish Port Site
 Ground Water Well Cost Estimate
 Job No. 216269

Rough Order of Magnitude Cost Estimate						
Item No.	Description	Unit	Est. Quantity	Unit Price	Extension	
1	Mobilization and Rig Supply Well	L.S.	1	\$ 25,000.00	\$	25,000.00
2	Drilling of 100' BGS groundwater well. Includes set casing, under-ream, set screen, and test pump	L.S.	1	\$ 100,000.00	\$	100,000.00
3	35GPM pump system assembly and foundation	L.S.	1.00	\$ 75,000.00	\$	75,000.00
Subtotal:					\$	200,000.00
20% Contingency₁:						x 1.20
Rough Order of Magnitude (ROM):					\$	240,000.00

Footnotes:

- 1.) Estimate does not include costs for engineering, permitting, ROW acquisition, or general project management.
- 2.) This cost estimate was prepared with the best information available at the time of certification.
- 3.) Actual costs can vary based on availability of material, site conditions, and labor.
- 4.) Cost estimate does not include any pretreatment requirements prior to process use.

Water Utility Provider Questionnaire (page 1 of 2)

Site Name:
CSRS Project ID:

Site Map 1

Site Map 2

Date:
Provider Name:
Address:
City:
State:

Zip Code:
Name:
Phone:
Email:
Title:

Is potable or process water currently available at this site?	What is the distance (feet) to the nearest potable or process water distribution line to service this site?	What is the size (inches in diameter) of the nearest line?
Yes No	(feet)	(inches)
What are the pressures of the water line at or nearest to this site?	Static:	Residual:
Source of potable or process water (lake, well, other source)		
What is the total potable/process capacity of the existing water system in millions of gallons per day (MGD)?		
What is the current average daily use of the existing water system in millions of gallons per day (MGD)?		
What is the peak demand on the existing water system in millions of gallons per day (MGD)?		
What is the excess capacity of the existing water system in millions of gallons per day (MGD)?		
Capacity of closest elevated potable water storage tank (gallons):		
Distance to closest elevated potable water storage tank (miles):	Distance to appropriate booster station (miles):	
Is or will there be adequate pressure and flow at site to combat fires?	Yes	No

Is a plan underway to improve services at or near this site within the next year? If so, please provide anticipated upgrades, location, and time for implementation.

Water Utility Provider Questionnaire (page 2 of 2)

Site Name:
CSRS Project ID:

Please provide a map of existing utilities near the site. (click in area to insert image)